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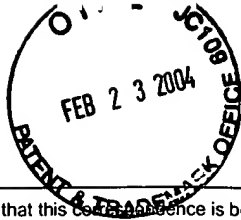
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Dated: February 23, 2004

Signature: *Tia B. Zimmerman*

(Tia B. Zimmerman)

PATENT
Docket No. 282172000810
Client Ref. 405DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Derek J. HEI

Serial No.: 09/872,384

Filing Date: June 1, 2001

For: METHODS AND DEVICES FOR THE
REMOVAL OF PSORALENS FROM
BLOOD PRODUCTS

Examiner: A. Marschel

Group Art Unit: 1631

**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicant submits for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

02/27/2004 JBALINAN 00000077 031952 09872384

01 FC:1254 1480.00 DA

This Supplemental Information Disclosure Statement is submitted:

- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of is enclosed.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicant would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

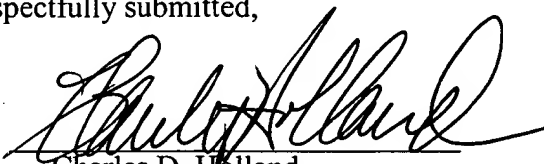
In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicant petitions for

any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 282172000810. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 23, 2004

Respectfully submitted,

By:



Charles D. Holland
Registration No. 35,196

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Form PTO-1449

Docket Number 282172000810

Application Number 09/872,384

Applicant

Derek J. HEI

Filing Date: June 1, 2001

Group Art Unit 1631

Mailing Date February 23, 2004

Examiner Name A. Marschel

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/19/2002	2002/0192632 A1	Hei et al.			
	2.	04/08/2003	6,544,727	Hei			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

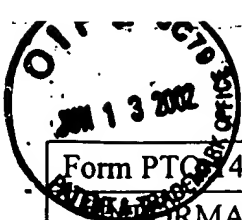
(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	3.	Office action mailed on May 20, 2003 in co-pending Application No. 10/051,976 filed on January 16, 2002.
	4.	Final Office action mailed on November 5, 2003 in co-pending Application No. 10/051,976 filed on January 16, 2002.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



Form PTO/SB 449

Docket Number: CERUS-408.11

Application Number: 10/051,976

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

Applicant: Derek J. Hei

(Use several sheets if necessary)

Filing Date: January 16, 2002

Group Art Unit: NYA

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Patent No.	Name	Class	Subclass	Filing Date If Appropriate
an	1.	02/21/89	RE 32,874	Rock et al.			
an	2.	04/24/73	3,729,457	Davankov et al.			
an	3.	12/20/77	4,064,042	Kunin			
an	4.	11/07/78	4,124,598	Hearst et al.			
an	5.	06/12/79	4,157,723	Granzow et al.			
an	6.	07/03/79	4,160,059	Samejima			
an	7.	09/25/79	4,169,204	Hearst et al.			
an	8.	04/01/80	4,196,281	Hearst et al.			
an	9.	05/13/80	4,202,775	Abe et al.			
an	10.	08/05/80	4,216,154	Kaufman			
an	11.	11/25/80	4,235,781	Kaufman			
an	12.	05/05/81	4,265,280	Ammann et al.			
an	13.	05/26/81	4,269,852	Kaufman			
an	14.	10/13/81	4,294,822	Kaufman			
an	15.	11/03/81	4,298,614	Kaufman			
an	16.	06/28/83	4,390,619	Harmening-Pittiglio			
an	17.	11/01/83	4,412,835	Spencer			
an	18.	05/08/84	4,447,415	Rock et al.			
an	19.	07/17/84	4,460,530	Hanson et al.			
an	20.	03/18/86	4,576,715	Michaels et al.			
an	21.	06/10/86	4,594,202	Pall et al.			
an	22.	07/28/87	4,683,195	Mullis et al.			
an	23.	07/28/87	4,683,202	Mullis			
an	24.	08/04/87	4,684,521	Edelson			
an	25.	09/15/87	4,693,981	Wiesehahn et al.			
an	26.	09/22/87	4,695,460	Holme			
an	27.	11/03/87	4,704,352	Miripol et al.			
an	28.	02/23/88	4,727,027	Wiesehahn et al.			
an	29.	03/01/88	4,728,432	Sugiyama et al.			
an	30.	05/31/88	4,748,120	Wiesehahn			

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Form PTO/SB/08 (2-92)	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant: Derek J. Hei	
(Use several sheets if necessary)	Filing Date: January 16, 2002	Group Art Unit: NYA

U.S. PATENT DOCUMENTS

31.	05/09/89	4,828,976	Murphy			
32.	05/15/90	4,925,665	Murphy			
33.	06/19/90	4,935,141	Buck et al.			
34.	09/25/90	4,959,148	Clark III			
35.	01/15/91	4,985,153	Kuroda et al.			
36.	02/21/91	4,992,363	Murphy			
37.	07/09/91	5,030,352	Varady et al.			
38.	08/06/91	5,037,857	Maroldo et al.			
39.	03/10/92	5,094,960	Bonomo			
40.	03/31/92	5,100,564	Pall et al.			
41.	05/12/92	5,112,298	Prince et al.			
42.	07/07/92	5,128,048	Stewart et al.			
43.	08/11/92	5,137,926	Maroldo et al.			
44.	09/15/92	5,147,290	Jonsson			
45.	03/02/93	5,190,657	Heagle et al.			
46.	08/10/93	5,234,608	Duff			
47.	12/14/93	5,269,917	Stankowski			
48.	01/18/94	5,279,742	Markell et al.			
49.	02/22/94	5,288,605	Lin et al.			
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51.	10/11/94	5,354,262	Boehringer et al.			
52.	03/21/95	5,399,719	Wollowitz et al.			
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57.	10/17/95	5,459,030	Lin et al.			
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61.	01/23/96	5,486,410	Groeger			
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Form PTO-14	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant: Derek J. Hei	
(Use several sheets if necessary)	Filing Date: January 16, 2002	Group Art Unit: NYA

U.S. PATENT DOCUMENTS

63.	03/12/96	5,498,520	Chapman			
64.	03/26/96	5,501,795	Pall et al.			
65.	04/02/96	5,504,163	Tegen et al.			COPY OF PAPERS ORIGINALLY FILED
66.	07/02/96	5,531,902	Gallup			
67.	08/06/96	5,543,062	Nishimura			
68.	09/17/96	5,556,541	Ruschke			
69.	09/24/96	5,559,250	Cook et al.			RECEIVED
70.	11/05/96	5,571,666	Floyd et al.			JUN 19 2002
71.	01/14/97	5,593,823	Wollowitz et al.			
72.	02/22/94	5,605,746	Groeger			TECH CENTER 1600/2900
73.	03/04/97	5,607,766	Berger			
74.	04/01/97	5,616,254	Pall et al.			
75.	06/17/97	5,639,376	Lee et al.			
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77.	09/02/97	5,662,728	Groeger			
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79.	10/06/98	5,817,354	Mozaffar et al.			
80.	03/16/99	5,883,256	Schuler et al.			
81.	05/08/01	6,228,995	Lee			
82.	11/20/01	6,319,662	Foley et al.			

INTERNATIONAL PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
63.	10/11/91	03-229610	Japan				Partial	
64.	12/14/89	3819000	Germany				Partial	
65.	12/09/87	62-283198	Japan				Partial	
66.	04/04/91	WO 91/03933	PCT					
67.	12/08/94	WO 94/27433	PCT					
68.	01/05/95	WO 95/00631	PCT					
69.	07/13/95	WO 95/18665	PCT					

EXAMINER:	DATE CONSIDERED: 5/16/03
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Form PTO-1449	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant: Derek J. Hei	
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OTHER DOCUMENTS (including author, title, Date Pertinent Pages, etc.)		
Examiner Initials	Ref.No.	Title
<i>a</i>	90.	510(k) Notification submitted to the U.S. Food & Drug Administration, Asahi Medical Co., Ltd., Tokyo, Japan (12/5/88).
<i>a</i>	91.	Adams, et al., "The Pechmann Reaction," Organic Reactions Vol. VII Chapter 1, Wiley, NY (1953).
<i>on</i>	92.	Alter, et al., "Photochemical Decontamination of Blood Components Containing Hepatitis B and Non-A, Non-B Virus," The Lancet (ii:1446-1450) (1988).
<i>a</i>	93.	Alter et al. "How frequent is posttransfusion hepatitis after the introduction of 3 rd generation donor screening for hepatitis B? What is probable nature?" Int'l. Forum: Vox Sang 32:346-363 (1977)
<i>an</i>	94.	Andrade, J.D., et al., "Coated adsorbents for direct blood perfusion: Hema/activated carbon", Vol. XVII Trans. Amer. Soc. Artif. Int. Organs pp. 222-228 (1971).
<i>an</i>	95.	Artuc et al. "Reversible binding of 5- and 8-methoxypsoralen to human serum proteins (albumin) and to epidermis in vitro" Brit. J. Derm. 101:669-677 (1979)
<i>an</i>	96.	Belogurov and Zavil'gel'skii "Mechanism of the inactivation of the photosensitizer 8-methoxypsoralen on bacteria and bacteriophages" Sovgenet 14:219-223 (1978)
<i>a</i>	97.	Bender, et al., "Psoralen Synthesis Improvements in Furan Ring Formation. Application to the Synthesis of 4,5',8-Trimethylpsoralen," J. Org. Chem. 44:2176-2180 (1979).
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<i>a</i>	99.	Bertolini, F., et al., "Platelet Quality After 15-day Storage of Platelet Concentrates Prepared from Buffy Coats and Stored in a Glucose-Free Crystalloid Medium," Transfusion 32:9-16 (1992).
<i>a</i>	100.	Bock, M., et al., "White cell depletion of single-donor platelet preparations by a new adsorption filter," Transfusion 31:333-334 (1991).
<i>a</i>	101.	Bogusz M. et al. "Isolation of drugs from blood and tissues with XAD-2 bags" Forensic Sci. Int'l. 12:73-82 (1978)
<i>a</i>	102.	Boomgaard, M.N. et al., "In vitro evaluation of platelet concentrates, prepared from pooled buffy coats, stored for 8 days after filtration", Transfusion 34:311-316 (1994).
<i>an</i>	103.	Bordin et al. "DNA repair and recovery in escherichia coli after psoralen and angelicin photosensitization" Biochimica et Biophysica Acta 447: 249-259 (1976)
<i>a</i>	104.	Brettell T.A., and Saferstein, R., "Forensic science" Anal. Chem., 59:162-174 (1987).
<i>a</i>	105.	Carmen R. "The selection of plastic materials for blood bags" Trnas. Med. Rev. 7:1 1-10 (1993)
<i>a</i>	106.	Chandy, T., and Sharma, C.P., "Polylysine-immobilized chitosan beads as adsorbents for bilitubin," Artificial Organs 16:568-576 (1992).
<i>a</i>	107.	Cimino et al., "Psoralens as Photoactive Probes of Nucleic Acid Structure and Function: Organic Chemistry, Photochemistry, and Biochemistry," Ann. Rev. Biochem. 54:1151-1193 (1985).
<i>a</i>	108.	Coli et al. "Phosphate removal by resin hemoperfusion efficacy and biocompatibility of a new exchange" Biomat, Art Cells & Immob. Biotech. 20:1153-1163 (1992)
<i>a</i>	109.	Courtney, J.M., et al., "Monitoring of the blood response in blood purification," Artificial Organs 17:260-266 (1993).
<i>a</i>	110.	Davankov, V.A., and Tsyurupa, M.P., "Structure and properties of hypercrosslinked polystyrene-the first representative of a new class of polymer networks," Reactive Polymers 13 Elsevier Science Pub. B.V., Amsterdam pp. 27-42 (1990).

EXAMINER: <i>an</i> <i>an</i> <i>an</i>	DATE CONSIDERED: <i>5/14/03</i>
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	

Form PTO-1449	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant: Derek J. Hei	
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OTHER DOCUMENTS (including author, title, Date Pertinent Pages, etc.)		
Examiner Initials	Ref.No.	Title
	111.	Dodd et al. (1991) "Inactivation of Viruses in Platelet Suspensions that Retain Their In Vitro Characteristics: Comparison of Psoralen-ultraviolet A and Merocyanine 540 Visible Light Methods," Transfusion 31:483-490
	112.	Dunlop, E.H. and Williams, R., "Physico-chemical aspects of the removal of protein-bound substances by charcoal and other adsorbents of potential value in systems of artificial liver support: Part 2- Kinetics of removal," Med. & Biol. Eng. & Comput., 16:350-362 (1978).
	113.	Dunlop, E.H., and Williams, R., "Physico-chemical aspects of the removal of protein-bound substances by charcoal and other adsorbents of potential value in systems of artificial liver support: Part I - Equilibrium properties," Med. & Biol. Eng. & Comput., 16:343-49(1978).
	114.	Durst, T., "Dimethylsulfoxide (DMSO) in Organic Synthesis," Adv. Org. Chem. 6:352-353 (1969).
	115.	Dvilansky et al. "Evaluation of a new polyacrolein microsphere (acrobead) protein A column: An in vitro study using the blood of patients with immune thrombocytopenia or malignancies" Transfusion 32:210-214 (1992)
	116.	Faenza et al. "Hemoperfusion with a new anion exchange resin corrects the metabolic alkalosis in pyloric stenosis: An experimental demonstration" Int'l. J. Art. Organs 15:677-680 (1992)
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	118.	Fujita and Kakishima "Photobiological activities of 5-alkoxypsoralens with respect to the action on <i>Escherichia coli</i> " Photochem and Photobio. 43:2 221-224 (1986)
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	120.	Goodrich R.P. et al. "Selective inactivation of viruses in the presence of human platelets: UV sensitization with psoralen derivatives" Proc. Nat'l. Acad. Sci. USA 91:5552-5556 (1994)
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	122.	Hanson, C.V., et al., "Application of a Rapid Microplaque assay for Determination of Human Immunodeficiency Virus Neutralizing Antibody Titers," J. Clin. Micro 28:2030 (1990).
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EXAMINER:	DATE CONSIDERED:
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Sheet 6 of 9

Form PTO-1449	Docket Number: CERUS-408.11	Application Number: 10/051,976
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant: Derek J. Hei	
(Use several sheets if necessary)	Filing Date: January 16, 2002	Group Art Unit: NYA

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OTHER DOCUMENTS		(including author, title, Date Pertinent Pages, etc.)
	131.	Hyde and Hearst, "Binding of Psoralen Derivatives to DNA and Chromatin: Influence of the Ionic Environment on Dark Binding and Photoreactivity," Biochemistry 17:1251-1252 (1978).
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	133.	Isaacs, et al., "A Photochemical Characterization of Reactions of Psoralen Derivatives with DNA," Trends in Photobiology (Plenum) pp. 279-294 (1982).
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	136.	Ishihara, K., et al., "Selective adhesion of platelets on a polyion complex composed of phospholipid polymers containing sulfonate groups and quaternary ammonium groups," J. Biomed. Mat. Res., 28:1347-1355 (1994).
	137.	Joustra-Dijkhuis, A.M., "Effect of filtration on subsequently stored platelet concentrates," Vox Sang 67:22-27 (1994)
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	139.	Kaufman, et al., "Reactions of Furocoumarins. II(1). Synthetic Aminomethyl Psoralens via Chloromethylation of Benzylic Bromination," J. Heterocyclic Chem. 19:1051 (1982).
	140.	Kiremitci & Piskin "Properties of new sorbents containing activated carbon-PHEMA-PEG" Int'l. J. of Art. Org. 8:4 201-208 (1985)
	141.	Kril and Fung, "Influence of hydrophobicity on the Ion exchange selectivity coefficients for aromatic amines" J. Pharm Sci., 79:440-443 (1990)
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	143.	Lee, B.L., et al., "Interaction of Psoralen-Derivatized Oligodeoxyrionucleoside Methylphosphonates with Single-Stranded DNA," Biochemistry, 27:3197-3203 (1988).
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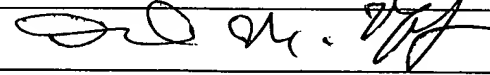
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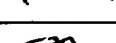

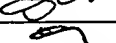
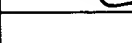
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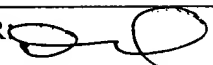
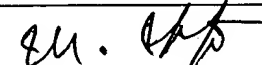
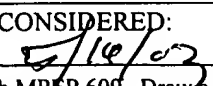
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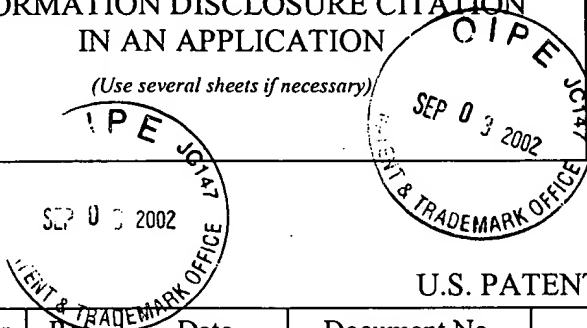
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